Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A compound of the formula:

$$(F)_m G(R)_n$$

wherein

each R is a group comprising at least one carbon, nitrogen, phosphorus or sulfur atom and G is joined to R through said carbon, nitrogen, phosphorus or sulfur atom;

G is silicon or boron;

m is 2 to 5 and n is 1 to 3 with m + n = 3 to 6 when G is silicon;

m is 1 to 3 and n is 1 to 3 with m + n = 3 to 4 when G is boron;

and wherein the compound further comprises one or more counterions when the above formula is charged; and wherein at least one F is ¹⁸F.

- 2. (Original) The compound of claim 1 wherein one or more counterions are present when m + n = 5 or 6 and G is Si and when m + n = 4 and G is B;
 - 3. (Currently amended) The compound of claim 1 or 2 wherein G is silicon.
 - 4. (Original) The compound of claim 3 wherein at least two of F are ¹⁸F.
 - 5. (Currently amended) The compound of claim 3 or 4 wherein:
 - (i) m = 2, n = 3;

(ii)
$$m = 4, n = 1;$$

(iii)
$$m = 5, n = 1;$$

(iv)
$$m = 2, n = 2;$$

(v)
$$m = 3, n = 1; or$$

(vi)
$$m = 3, n = 2.$$

- 6. (Original) The compound of claim 5 wherein:
 - (i) m = 2 and n = 3;
 - (ii) m = 4 and n = 1; or
 - (iii) m = 5 and n = 1.
- 7. (Original) The compound of claim 5 wherein m = 4, n = 1.
- 8. (Currently amended) The compound of claim 1 or 2 wherein G is boron.
- 9. (Original) The compound of claim 8 wherein:

(i)
$$m = 1, n = 3;$$

(ii)
$$m = 2, n = 2;$$

(iii)
$$m = 3, n = 1;$$

(iv)
$$m = 1, n = 2; or$$

(v)
$$m = 2, n = 1.$$

10. (Original) The compound of claim 9 wherein:

(i)
$$m = 1$$
 and $n = 3$;

- (ii) m = 2 and n = 2; or
- (iii) m = 3 and n = 1.
- 11. (Currently amended) The compound of any one of claims 1 to 10 claim 1 wherein each R is joined to G through a nitrogen or carbon atom.
- 12. (Currently amended) The compound of any-one of claims 1 to 10 claim 1 wherein each R is joined to G through a carbon atom.
- 13. (Currently amended) The compound of any one of claims 1 to 7, 11 and 12 claim 1 wherein G is silicon and at least one R is selected from the group consisting of: aryl, amino, methyl, phenyl, aminophenyl, aminomethylphenyl, alkoxymethylphenyl, a porphyrin, a porphyrin derivative and a biomolecule.
- 14. (Currently amended) The compound of any one of claims 1, 2 and 8–12 claim 1 wherein G is boron and at least one R is selected from the group consisting of: aryl, amino, phenyl, methyl, pyrromethine, aminophenyl, aminomethylphenyl, phenyl benzimideazole, 8-naphthalenedialkylboranyl, alkoxymethylphenyl, and a biomolecule.
- 15. (Currently amended) The compound of any one of claims 1 to 14 claim 1 wherein at least one R is a moiety capable of bonding to a biomolecule.

- 16. (Currently amended) The compound of any one of claims 1 to 15 claim 1 wherein at least one R is a biomolecule.
- 17. (Currently amended) The composition compound of claim 16 wherein the biomolecule is a sugar, a peptide, a nucleic acid or derivative or analog thereof.
- 18. (Original) The compound of claim 16 wherein the biomolecule is a hormone, somatostatin, growth hormone, VEGF, EGF, an antibody, a breast cancer antigen specific antibody, a prostate cancer antigen specific antibody, a melanoma antigen specific antibody, a ligand, a RGD-motif ligand recognizing a matrix metalloprotease, an aptamer, an aptamer recognizing a cell surface protein, folic acid, a folic acid derivative and a methotrexate or a derivative or analog thereof.
- 19. (Currently amended) A compound according to any one of claims 1, 2, 3 and 5 to 18 claim 1 comprising more than one ¹⁸F atom.
- 20. (Currently amended) A compound according to any one of claims 1 to 19 claim 1 comprising at least one ¹⁹F atom.
- 21. (Currently amended) A composition comprising two or more different compounds each according to <u>claim 1-any one of claims 1 to 20</u>.

22. (Currently amended) A composition comprising at least one compound according to any one of claims 1 to 20 claim 1 and at least one compound of formula

$$(F)_m G(R)_n$$

wherein R, G, M and n are as defined and F is a naturally occurring fluorine isotope.

- 23. (Original) The composition of claim 22 wherein the naturally occurring isotope is ¹⁹F.
- 24. (Currently amended) The A composition of any one of claims 21 to 23 further comprising comprising a compound according to claim 1 and a physiologically acceptable carrier or excipient.
- 25. (Currently amended) A method of preparing a positron emitting compound comprising fluorinating a compound of the formula

$$(L)_{a} G(R)_{n}$$

with ¹⁸F to produce a compound of the formula:

$$(F)_m G(R)_n$$

wherein each L is the same or different and is a leaving group capable of being displaced by fluorine, R, G, m and n are as defined in <u>claim 1</u>, any one of claims 1 to 16, q is 1 or 3 when G is boron and q is 2 or 3 when G is silicon, and wherein at least one F is ¹⁸F.

- 26. (Original) The method of claim 25 wherein said fluorination is by H¹⁸F, KH¹⁸F₂, or a tri- or tetra-alkyl ammonium salt of ¹⁸F⁻.
- 27. (Currently amended) The method of claim 25-or-26 wherein at least one R comprises a moiety capable of forming a bond with a biomolecule.
- 28. (Original) The method of claim 27 wherein the moiety is capable of forming the bond in aqueous conditions at about pH 3.0 to about pH 7.5.
- 29. (Currently amended) The method of any one of claims 25 to 28 claim 25 performed at about pH 3.0 to about 9.0.
 - 30. (Original) The method of claim 29 performed at about pH 7.0.
- 31. (Currently amended) The method of any one of claims 25 to 30 claim 25 additionally comprising the step of reacting the compound with a biomolecule.
- 32. (Original) The method of claim 31 wherein the reacting step is performed before fluorination.

- 33. (Currently amended) The method of <u>claim 31</u>, any one of claims 27, 28, 31 or 32, wherein the biomolecule is a sugar, a peptide, a nucleic acid or derivative or analog thereof.
- 34. (Currently amended) The method of <u>claim 31</u>, <u>any one of claims 27</u>, 28, 31 or 32, wherein the biomolecule is selected from the group consisting of: a hormone, somatostatin, growth hormone, VEGF, EGF, an antibody, a breast cancer antigen specific antibody, a prostate cancer antigen specific antibody, a melanoma antigen specific antibody, a ligand, a RGD-motif ligand recognizing a matrix metalloprotease, an aptamer, an aptamer recognizing a cell surface protein, folic acid, a folic acid derivative and a methotrexate, or a derivative or analog thereof.
- 35. (Currently amended) The method according to any one of claims 25 to 34 of claim 25 wherein G is Silicon and L is selected from the group consisting of: -OH, -O', O-alkyl, O-aryl, pinacol, O-pyridyl, O-nitrophenyl, a silanized silicate, a triol presenting saccharide, a triol presenting silicate, and an alcohol presenting solid support.
- 36. (Currently amended) The method according to <u>claim 25</u> any one of claims 25 to 34 wherein G is boron and L is selected from the group consisting of –OH, O-alkyl, O-aryl, pinacol, O-pyridyl, O-nitrophenyl, diol presenting saccharides, and an alcohol presenting solid support.